

WHAT IS CLAIMED IS:

- 1 1. A battery terminal comprising:
2 a body having a top surface, an opposing bottom surface, and a first
3 groove extending within the body proximate the bottom surface.
- 1 2. The battery terminal of claim 1, wherein the first groove includes a
2 base portion having a first width and an opening having a second width less than the
3 first width.
- 1 3. The battery terminal of claim 2, wherein the body includes a
2 longitudinal axis extending substantially perpendicular between the top and bottom
3 surfaces, the first groove defining a first groove vector extending substantially
4 perpendicular between the base and the opening, the first groove vector being
5 substantially perpendicular to the longitudinal axis.
- 1 4. The battery terminal of claim 3 wherein the distance between the base
2 of the first groove and the bottom surface is less than the distance between the
3 opening of the first groove and the bottom surface.
- 1 5. The battery terminal of claim 3, wherein the distance between the base
2 of the first groove and the bottom surface is greater than the distance between the
3 opening of the first groove and the bottom surface.
- 1 6. The battery terminal of claim 2, further including a second groove
2 located closer to the top surface than the first groove.
- 1 7. The battery terminal of claim 6, wherein the body includes a frustum
2 extending downward from the top surface, a bottom portion adjacent the bottom
3 surface and a spline located between the frustum and the bottom portion, wherein the
4 first groove is located in the bottom portion and the second groove is located
5 proximate the spline.

1 8. The battery terminal of claim 7, wherein the second groove is located
2 within the spline.

1 9. The battery terminal of claim 6, wherein the body includes a base portion
2 with an insert embedded therein and bottom portion extending downward from the
3 base portion, wherein the first and second grooves are located within the bottom
4 portion and base portion respectively.

1 10. A battery comprising:
2 a housing having an outer surface and an inner surface defining an
3 interior; and
4 a terminal connected to the housing, having a first portion extending
5 above the housing, a engagement portion engaged with the housing and a third portion
6 in fluid communication with the interior of the housing, the terminal including a
7 longitudinal axis extending through the terminal and substantially perpendicular to the
8 portion of the housing through which the terminal is engaged, the terminal including a
9 first groove within the engagement portion, the first groove including an opening
10 having a first width, the first groove also including a portion having a width that is
11 greater than the first width of the opening.

1 11. The battery of claim 10, wherein the terminal includes a second groove
2 including a second opening having a second opening width, the second groove
3 includes a second portion having a second portion width that is greater than the
4 second opening width.

1 12. The battery of claim 10, wherein the first groove includes a first
2 groove vector extending from the base of the groove toward the opening of the
3 groove, wherein the first groove vector is parallel to the longitudinal axis.

1 13. The battery of claim 10, wherein the first groove includes a first
2 groove vector extending from the base of the groove toward the opening of the
3 groove, wherein the first groove vector is perpendicular to the longitudinal axis.

1 14. The battery of claim 12, wherein the second groove includes a second
2 groove vector extending from the base of the second groove toward the opening of the
3 second groove, wherein the second groove vector is parallel to the longitudinal axis.

1 15. The battery of claim 12, wherein the second groove includes a second
2 groove vector extending from the base of the second groove toward the opening of the
3 second groove, wherein the second groove vector is perpendicular to the longitudinal
4 axis.

1 16. The battery of claim 11 wherein the housing includes an edge
2 proximate each groove.

1 17. A battery terminal comprising:
2 a body having a first portion extending and an engagement portion, a
3 the body including a longitudinal axis extending through the body, the body including
4 a first groove within the engagement portion, the first groove including an opening
5 having a first width, the first groove also including a portion having a width that is
6 greater than the first width of the opening.

1 18. The battery terminal of claim 17, further including a second groove
2 including a second opening having a second opening width, the second groove
3 includes a second portion having a second portion width that is greater than the
4 second opening width.

1 19. The battery terminal of claim 17, wherein a vector extending between
2 the base of the first groove and the opening of the first groove is parallel to the
3 longitudinal axis of the body.

1 20. The battery terminal of claim 18, wherein a vector extending between
2 the base of the first grooves and the opening of the first groove is parallel to the
3 longitudinal axis and wherein a second vector extending between the base of the
4 second groove of the body.

1 21. A battery comprising:
2 a terminal including a groove extending 360 degrees therearound, the
3 groove including a base and an opening;
4 a plastic housing having an outer surface and an inner surface defining
5 an interior, the terminal being molded within the plastic housing and having a portion
6 extending outwardly from one outer surface of the plastic housing, the plastic housing
7 having a sealing bead extending into the opening of the groove and filling the area
8 within the groove.

1 22. The battery of claim 21, wherein, the groove defines a groove vector
2 extending substantially perpendicular through the area defined by the groove opening,
3 the groove vector being substantially perpendicular to the one outer surface of the
4 plastic housing.

1 23. The battery of claim 22, wherein, the plastic container includes an edge
2 proximate the groove.

1 24. The battery of claim 23, wherein, the edge of the plastic container is
2 within .5 inches of the groove.

1 25. The battery of claim 23, wherein, the edge of the plastic container is
2 within .25 inches of the groove.

1 26. The battery of claim 23, wherein the edge is less than .25 inches from
2 the groove.

1 27. The battery of claim 22, wherein the opening of the groove has a first
2 width, the groove also including a portion having a width that is greater than the first
3 width.

1 28. The battery of claim 22, wherein the opening of the groove has a first
2 width that is at least as great as the width of any other portion of the groove.

1 29. The battery of claim 21, wherein the groove is proximate the outer
2 surface of the container.

1 30. The battery of claim 29, wherein the terminal includes a second groove
2 proximate the inner surface of the container.

1 31. The battery of claim 13, wherein the second groove includes a second
2 groove vector extending from the base of the second groove toward the opening of the
3 second groove, wherein the second groove vector is parallel to the longitudinal axis.

1 32. The battery of claim 13, wherein the second groove includes a second
2 groove vector extending from the base of the second groove toward the opening of the
3 second groove, wherein the second groove vector is perpendicular to the longitudinal
4 axis.